

REMARKS

Prior to this Amendment, original claims 1-27 were pending in the application.

Upon entry of this amendment:

Claims 1, 3, 5, 7, 8, 11, 13-16, 23-24, and 27 have been amended; and

Claims 19, 20, and 25 have been cancelled without prejudice.

As a result, claims 1-18, 21-24, and 26-27 remain pending in the application.

Allowance of the pending claims is respectfully requested.

35 U.S.C. § 101 (Statutory-Type Double Patenting)

In paragraph 1 of the office action, the Examiner rejected claims 19-20 and 25 under 35 U.S.C. Section 101 as claiming the same invention as that of claims 1-2 and 3, respectively, of prior U.S. Patent No. 6,320,623. In response, Applicants have cancelled claims 19-20 and 25 without prejudice.

Claim Rejections 35 U.S.C. §§ 102 and 103

In paragraphs 2 and 3 of the office action, the Examiner rejected claims 1-2, 4, 8-10, 13, 22, 24, and 27 under 35 U.S.C. Section 102(b) as being anticipated by, or in the alternative, under 35 U.S.C. 103(a) as being unpatentable over *Strubbe* (U.S. Patent No. 5,432,561).

In response, Applicants have amended claim 1 to highlight the distinction between the event detector of the present invention and the signal-presence detector 60 of *Strubbe*. *Strubbe* is directed to a television receiving system for indicating the availability of an auxiliary program source input, and includes a main input and an auxiliary input. (*Strubbe*, claim 1) A signal-presence detector 60 is disposed between the auxiliary input and a control circuit (*Strubbe*, col. 3, lns. 14-18) The signal-presence detector 60 detects whether the auxiliary input is in fact being supplied or not, and causes the control signal to adjust the display accordingly. (*Strubbe*, col. 3, lns. 49-59)

According to the present invention, the user inputs at the user interface, the particular event to be detected. The event could be certain specified text, audio, Web information, and so forth. (Specification, p. 6) Unlike the signal-presence detector of *Strubbe*, the detector of the present invention analyzes the incoming signal (either the audio or video portions, or both) in order to detect the event that has been previously identified by the user. In other words, the present invention is directed to a device that actually analyzes an incoming presentation signal in order to detect a user-specified event, and does not simply adjust the display when a particular device has been turned on or off. Applicants respectfully suggest that the teaching of *Strubbe* therefore does not anticipate the present invention, and furthermore, there is no suggestion in *Strubbe* to analyze the incoming presentation signal in this more sophisticated manner. Applicants further respectfully suggest that claim 1 has not thereby been narrowed, but rather clarified in order to highlight this distinguishing

feature. Rejected dependent claims 2 and 4 depend from claim 1, and are likewise therefore distinguishable from the cited prior art.

Claim 8, a method claim, has been amended similarly to claim 1, in order to highlight the distinguishing features of the present invention. Claims 9 and 10 depend from claim 8, and therefore contain this distinguishing characteristic as well.

Independent claim 13 has been amended to add a receiving step to receive user input identifying a particular event, an amendment that highlights in claim 13, the distinguishing features of a computer-executable process similar to the method of claim 8, and therefore distinguishable for the reasons described above.

Regarding independent claim 22, Applicants respectfully traverse. The signal-presence detector of *Strubbe* is coupled to receive a second video signal from a separate device than the device supplying the main signal. (*Strubbe*, col. 3, lns. 14-22) In contrast, the present invention uses a text-recognition detector, in order to identify user-defined text in at least one program, which is one of a plurality of programs in a video signal being analyzed by the detector. Applicants respectfully suggest that it would not be obvious for one of ordinary skill in the art to modify the device of *Strubbe*, which switches to input from an alternate auxiliary device when it is turned on, to the present invention, which analyzes a plurality of programs contained in a video signal. The application is therefore distinguishable from the cited reference.

Independent claim 24, an apparatus claim, has been amended to include the features added in this amendment to claim 13 and described above. Applicants respectfully suggest that it is likewise distinguishable from the cited prior art.

With regard to claim 27, Applicants respectively traverse the Examiner's rejection. As pointed out above with regard to claim 22, *Strubbe* does not teach or suggest a detector that can detect text in at least one program by examining a video signal containing a plurality of programs. For the reasons set forth more fully above, the invention recited in claim 27 is also respectfully suggested to be distinguishable from the cited prior art.

In light of the above remarks and the amendments therein described, Applicants respectfully suggest that claims 1-2, 4, 8-10, 13, 22, 24, and 27 are now in condition for allowance. Such allowance is respectfully requested.

Allowable Subject Matter (Claim Objections)

On page 5 of the office action, claims 3, 5-7, 11-12, 14-18, 21, 23, and 26 were objected to as being dependent upon rejected base claims. Applicants gratefully acknowledge the Examiner's indication that these claims recite subject matter that will be allowable if rewritten in independent form. In response, each of claims 3, 5, 7, 11, 14, 16, and 23 have been rewritten to include their limitations and all of the limitations of the independent claim from which they depend (claims 21 and 26 already being in independent form). Claims 6, 12, 15, and 17-18 are dependent claims that

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depend from one of the claims recited above as having been rewritten in independent form. As a result, Applicants respectfully request allowance of claims 3, 5-7, 11-12, 14-18, 21, 23, and 26.

AMENDMENTS WITH MARKINGS TO SHOW CHANGES MADE

Claims 1, 3, 5, 7, 8, 11, 13-16, 23-24, and 27 were amended herein as follows:

1. (amended) A device for receiving a video and/or audio signal comprising a plurality of different programs, comprising:

an input that [which] receives [a user input pertaining to an event] the video and/or audio signal;

a user interface [which] that receives a user input [pertaining to] identifying an event to be detected;

a detector [which] that analyzes the video and/or audio signal of at least one program to detect the identified event in the program; and

a selector for automatically, upon detection of the identified event, providing to a display the program containing the event.

3. (amended) [The device as claimed in claim 1, wherein the event is an audio event and the detector is a speech recognition device for detecting audio in the audio signal of the at least one program.] A device for receiving a video and/or audio signal comprising a plurality of different programs, comprising:

an input that receives the video and/or audio signal;

a user interface that receives a user input identifying an audio event to be detected;

a speech-recognition device that analyzes the audio signal of at least one program to detect the identified audio event in the program; and

a selector for automatically, upon detection of the identified event, providing to a display the program containing the event.

5. (amended) [The device as claimed in claim 1, further including a shape detector for detecting shapes in the video information of the at least one program, and] A device for receiving a video and/or audio signal comprising a plurality of different programs, comprising:

an input that receives the video and/or audio signal;

a user interface that receives a user input identifying a shape to be detected wherein the user interface includes a device which enables the user to enter, as the event to be detected, shape inputs[.];

a shape-detector device that analyzes the video signal of at least one program to detect the identified shape in the program; and

a selector for automatically, upon detection of the identified shape, providing to a display the program containing the shape.

7. (amended) [The device as claimed in claim 1, further including] A device for receiving a video and/or audio signal comprising a plurality of different programs, comprising:

an input that receives the video and/or audio signal;

a user interface that receives a user input identifying an event to be detected;

a detector that analyzes the video and/or audio signal of at least one program to detect the identified event in the program;

a selector for automatically, upon detection of the identified event, providing to a display the program containing the event; and

a memory for storing a particular length of audio and/or video information such that the program containing the identified event is delayed when supplied to the display upon detection of the event.

8. (amended) A method of receiving a video and/or audio signal comprising a plurality of different programs, comprising the steps of:

receiving the video and/or audio signal;

receiving a user input [pertaining to] identifying an event to be detected;

analyzing the video and/or audio signal of at least one program to detect the identified event in the program; and

providing to a display the program containing the identified event upon detection of the event.

11. (amended) [The method as claimed in claim 8, wherein the step of analyzing performs shape recognition and scans the video signal for shapes, and wherein the step of receiving a user input receives a shape to be detected.] A method of receiving a video and/or audio signal comprising a plurality of different programs, comprising the steps of:

receiving the video and/or audio signal;

receiving a user input identifying a shape to be detected;

analyzing the video signal of at least one program by performing shape recognition to detect the identified shape in the program; and

providing to a display the program containing the identified shape upon detection of the shape.

13. (amended) Computer-executable process steps to detect an event in a video and/or audio signal comprising a plurality of different programs, the computer-executable process steps being stored on a computer-readable medium and comprising:

a receiving step to receive user input identifying an event;

a detecting step to detect in at least one program [an] the identified event [which has been selected by a user]; and

an outputting step to automatically output to a display upon detection of the event the program containing the identified event.

14. (amended) [The computer-executable process steps as claimed in claim 13, wherein the detecting step includes a speech recognition step to detect audio in the audio signal of the at least one program.] Computer-executable process steps to detect an event in a video and/or audio signal comprising a plurality of different programs, the computer-executable process steps being stored on a computer-readable medium and comprising:

a receiving step to receive user input selecting an audio event;

a speech recognition step to detect in at least one program the audio event that has been selected by a user; and

an outputting step to automatically output to a display upon detection of the event the program containing the selected audio event.

15. (amended) The computer-executable process steps as claimed in claim 14, [wherein the detecting step includes] further including a [text recognition] text-recognition step to detect text within the video signal of the at least one program.

16. (amended) [The computer-executable process steps as claimed in claim 13, wherein the detecting step includes a shape detecting step for detecting shapes in the video signal of the at least one program.] Computer-executable process steps to detect an event in a video and/or audio signal comprising a plurality of different programs, the computer-executable process steps being stored on a computer-readable medium and comprising:

a receiving step to receive user input selecting shape;

a shape detecting step to detect in at least one program a shape that has been selected by a user; and

an outputting step to automatically output to a display upon detection of the event the program containing the selected shape.

23. (amended) Computer-executable process steps stored on a computer readable medium, the computer-executable process steps to detect text within a video signal including a plurality of programs, the computer-executable process steps, comprising:

a first receiving step to receive the video signal;

a decoding step to decode the video signal;

a second receiving step to receive an input from a user defining text to be detected in at least one program of the video signal;

a detecting step to detect, using text recognition steps, the user defined text in the at least one program of the video signal;

a providing step to provide to a display the program having the detected text; and

[The computer-executable process steps as claimed in claim 22, further including] a delay step to delay the program having the detected text so that display of the program captures the text.

24. (amended) An apparatus for detecting an event in a video signal comprising a plurality of programs, the apparatus comprising:

a memory which stores process steps; and

a processor which executes the process steps stored in the memory so as (i) to receive user input identifying an event, (ii) to detect, in at least one program, an event which [as] has been [selected] identified by a user, and [(ii)] (iii) to output automatically to a display upon detection of the identified event the program containing the event.

27. (amended) An apparatus for detecting text in a video signal comprising a plurality of programs, the apparatus comprising:

a memory which stores process steps; and

a processor which executes the process steps stored in the memory so as (i) to receive user input containing a text selection, (ii) to detect, in at least one program, text which [as] has been

selected by a user, and [(ii)] (iii) to output automatically to a display upon detection of the text the program containing the selected text.

SUMMARY

If any issues arise, or if the Examiner has any suggestions for expediting allowance of this Application, the Applicant respectfully invites the Examiner to contact the undersigned at the telephone number indicated below or at *jmockler@davismunck.com*.

The Commissioner is hereby authorized to charge any additional fees connected with this communication or credit any overpayment to Deposit Account No. 50-0208.

Respectfully submitted,

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